AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in

the application:

1 – 21   (Cancelled)

22 – 29   (Withdrawn)

30.   (Currently Amended) A method of bandwidth allocation for transmitting video on

a cable network, comprising:

>   providing a plurality of data sources;

>   differentially converting said data sources into compressed video streams,

responsive to an instantaneous resource restriction and a content of said data sources; and

>   multiplexing said compressed video streams on a single transmission line.

31.   (Previously Presented) A method according to claim 30, wherein said

differentially converting comprises converting each data source to a different frame rate

compressed video stream.

32.   (Previously Presented) A method according to claim 30, wherein said

differentially converting comprises, converting each data source to a different frame quality

level.

33.   (Previously Presented) A method according to claim 30, wherein said resource

restriction comprises a bandwidth restriction.

34.   (Previously Presented) A method according to claim 30, wherein said resource

restriction comprises a computing resource restriction.

35.   (Previously Presented) A method according to claim 30, wherein said data sources

comprise display commands.

36.   (Cancelled).

37.   (Previously Presented) A method according to claim 36, comprising providing an indication of said content with said data sources.

38.   (Previously Presented) A method according to claim 36, comprising providing an indication of said content by analyzing display commands which are comprised in said data sources.

39.   (Previously Presented) A method according to claim 36, comprising providing an indication of said content by a software which generates at least one of said data sources.

40-42   (Withdrawn)

43.   (New) A method of bandwidth allocation for transmitting video on a cable network, comprising:

provioding a plurality of data sources;

differentially converting said data sources into compressed video streams, responsive to an instantaneous computing resource restriction; and

multiplexing said compressed video streams on a single transmission line.

44.   (New) A method according to claim 43, wherein said differentially converting comprises converting each data source to a different frame rate compressed video stream.

45.   (New) A method according to claim 43, wherein said differentially converting comprises, converting each data source to a different frame quality level.

46.   (New) A method of bandwidth allocation for transmitting video on a cable network, comprising:

proviuding a plurality of data sources;

differentially converting said data sources into compressed video streams, responsive to an instantaneous resource restriction, by converting each data source to a different frame rate compressed video stream; and

multiplexing said compressed video streams on a single transmission line.

47.   (New) A method according to claim 46, wherein said differentially converting further comprises converting each data source to a different frame quality level.

48.   (New) A method according to claim 46, wherein said resource restriction comprises a bandwidth restriction.

49.   (New) A method according to claim 46, wherein said resource restriction comprises a computing resource restriction.